

INDEX

OF THE

Municipal Journal and Engineer

Published monthly at 140 Nassau Street, New York City,
by The Municipal Journal Publishing Company

VOLUME XVIII.—JANUARY-JUNE, 1905

	PAGE
<i>Associations and Societies:</i>	
American Society of Municipal Improvements.....	28, 78, 132, 228, 280
*An Important Factor in Municipal Development.....	224
*The N. B. M. A. Convention.....	76
National Brick Makers Meet in Convention.....	125
Meeting of Iowa Engineering Society.....	79
†New York and Chicago Road Association.....	124
Pike's Peak Polytechnic Society.....	132
Work of the New York Municipal Art Society.....	174
American Water Works Association.....	223
Meeting of Municipal Electricians.....	240
*A Taxpayers' League.....	245
League of American Municipalities.....	278
International Association of Fire Engineers.....	278
*A Municipal Exhibit.....	279
*Water Works Convention.....	279

<i>Books Reviewed:</i>	
*Proceedings of the Chicago Conference for Good City Government and the Tenth Annual Meeting of the National Municipal League, "Clinton Rogers Woodruff, Editor.....	
*"Bulletin Russé De Statistique Financière et De Legislation," 176 pp.....	
"The Art of Wise Investing"—Cloth, 8vo, 89 pp.	
"Accidents and Emergencies," Chas. W. Dulles, M.D.—Cloth, 8vo, 200 pp., \$1.00 net.....	
"Out of Work," Frances A. Kellor—Cloth, 8vo, 292 pp.....	
"Scientific American Reference Book for 1905," compiled by A. A. Hopkins and A. R. Bond—Cloth, 12 mo, 516 pp., \$1.50 postpaid.....	
*"Proceedings of the Twenty-fourth Annual Convention of the American Water Works Association," published by the secretary, Mr. John M. Diven—58 pp.....	
"Reinforced Concrete," Charles F. Marsh—8 vo, 530 pp., \$7.00.....	
"Party Organization and Machinery," Jesse Macy, Professor of Political Science at Iowa College—Cloth, 8 vo, 293 pp., \$1.25.....	
*"Report of a Fire, Load and Water Test," made upon a Reinforced Concrete Floor (Kahn System), Ira M. Woolson, E. M.—25 cents, postage 2 cents.....	
"Handbook on Sanitation," George M. Price, M.D.—Cloth, 8 vo, 301 pp., 28 illustrations, \$1.50.....	
"Life and Labor of the People of London," Charles Booth—Second series: Industry, 5 vols., 20s, the set.....	144, 189
"Grouping of Public Buildings," Bulletin No. 2, The Municipal Art Society of Hartford, Conn.....	
"An Outline of Municipal Government" in the city of New York, George Arthur Ingalls, B.A.—Cloth, 8 vo, 79 pp., with index, 75 cents.....	
"Crushed Stone and Its Uses," W. J. Jackman—The Telephone Service," Its Past, Its Present, and Its Future, Herbert Laws Webb, M. I. E. E., London, 1904.....	
"Urban Police and Sanitary Legislation, 1904," compiled and arranged by Frank Noel Keen, London, 1905. P. S. King and Son—Webster's International Dictionary," new edition, 1905.....	
"A Handbook for Superintendents of Construction, Architects, Builders and Building Inspectors," by H. G. Richey, Superintendent of Construction U. S. Public Buildings, John Wiley and Sons, New York, \$4.00.....	
*"Report of a Fire, Load and Water Test," "The Future of Road Making in America," by Archer Butler Hulbert—Vol. 15, Historic Highways of America Series—Cloth, 8 vo, 211 pp. The Arthur H. Clark Company, Cleveland, O., 1905.....	
"A Manual of Corporate Management," Thomas Conyngton, The Ronald Press, New York, 1904. Sheep, 8 vo, 350 pp., \$3.20.....	
"Cement and Concrete," by Louis Carlton Sabin, B. S., C. E., Assistant Engineer, Engineer Department U. S. Army, New York, McGraw Publishing Company—Cloth, 8 vo, 507 pp., \$5.00.....	
"Corporate Organization," Principles and Procedure, Thomas Conyngton, of the New York Bar, New York, The Ronald Press, sheep, 352 pp., \$3.00.....	
*"The Laboratory for the Testing of Road Materials at Columbia University," by A. Black, C. E.—Paper, 28 pp.....	241

NOTE:—*Editorial. †Illustrated. ††Letter to the Editor. ¶Item of Interest to the Trade.

	PAGE
"Report of the Ninth Annual Meeting of the International Association of Municipal Electricians".....	241
"The Modern Asphalt Pavement," by Clifford Richardson—Octavo, 580 pp., 32 figures; cloth binding; John Wiley and Sons, New York.....	290
"John Van Buren, Politician," anonymous—290 pp., 12mo, Harper and Bros., New York, \$1.50.....	291
<i>Building Regulations:</i>	
Municipalities Responsible for Defects in Public Structures.....	135
The New Paris, Paul Strauss.....	153
*"A Handbook for Superintendents of Construction, Architects, Builders, and Building Inspectors," H. G. Richey, Superintendent of Construction U. S. Public Buildings—John Wiley and Sons, New York, \$4.00.....	241

<i>Cement and Concrete:</i>	
Portland Cement, E. Kuichling, C. E.....	17, 67, 118, 157, 209, 267
Concrete-Street Curbs.....	47
Competitive Investigation of Hydraulic Cement.....	81
†Wainright Steel-Bound Curb.....	94
University Buildings Made of Cement.....	96
†The Weber Steel-Concrete Chimney.....	97
Testing Cements and Asphalts, Prof. A. W. Dow.....	162
Cement Works in Germany.....	176
†Drake Concrete Mixer.....	193
†American Concrete Mixer.....	246
†\$350 Offered in Prizes.....	247
Concrete Block Machines.....	247
†Concrete Bridges at Newark.....	283

<i>Civic Government:</i>	
The People of Topeka.....	37
†The Building of a City.....	199
†City Made Charters, Milo Roy Maltbie, Ph.D.....	168, 205, 257
*Indiana's New Municipal Code.....	172
*Village Improvements, Frederick S. Lamb.....	224
*An Important Factor in Municipal Development.....	224
Omaha's New Charter.....	231
Municipal Corruption Abroad.....	235
City Government by Commissions.....	260
*Politics and Municipalities, by George Stewart Brown.....	263
*Philadelphia in Disgrace.....	274

<i>Conduits:</i>	
*The Overhead Wires.....	
Conduit and Lighting Conditions in the United States.....	
†Wood-Stave Conduit, Kenneth Allen, C. E., Atlantic City.....	113
*Columbus Troubled by Overhead Wires.....	129
Many Cities Putting Wires Underground.....	
Underground Conduit System of New Britain, Conn.....	132
†Benefits of Underground Wires.....	138
*Shall There Be Pipe Galleries in the Subway?.....	177
<i>Engines and Pumps:</i>	
The Westinghouse World's Fair Turbine.....	47
†The Walrath Engines.....	98
†Water Supply by Compressed Air.....	245

<i>Explosives:</i>	
Regulations for the Sale and Storage of Explosives.....	82

<i>Finance:</i>	
How to Collect Local Assessments.....	36
St. Louis Considering a Bond Issue.....	37
Public Utility Corporations Poor Tax Payers.....	150

<i>Fire:</i>	
Fire-Fighting Systems, Superintendent Webb.....	87
Pensions in Washington Fire Department.....	39
*The Royal Fire Company at York.....	40
Pittsburg Resents Underwriters' Report.....	42
*Gasoline Motor Fire Engines.....	89
*British Firemen's Protective Suit, W. G. Fitzgerald.....	90
Johannesburg Fire Department.....	90
*The "Glazier" Fire Nozzle.....	100
To Prohibit Fireworks in New York.....	134
Suggestions to Underwriters, John R. Freeman.....	139, 183
*Automobile Engines Used Abroad, Emile Guarini.....	141
Chief Kellogg on Fire Fighting.....	143
*Metropolitan Wins Competitive Tests.....	146
Forty Fires Were Caused in Nashville, Tenn.....	175

	PAGE
Report of Chief O. G. Marjenhoff.....	186
Fire Department Statistics of Atlanta.....	186
Fire Loss in Salt Lake City.....	186
Fire Chief N. A. Ball, of Oakland.....	186
Recommendations for Radical Improvements.....	186
Report of John P. Quigley.....	187
Fire News from Elmira.....	187
New Orleans Fire Department.....	187
*The Wirt Hose Reel.....	196
Motor Fire Engine in London.....	239
Fire Engineers' Hand Book.....	239
What Fire Protection Costs.....	240
*The Digg's Fire Engines in London.....	248
Salt Water Fire Protection System for San Francisco.....	282
*Chemical Fire Extinguishers.....	292
*Speed with Safety.....	296
*Special Combination Hose Wagon.....	297
Meeting of Municipal Electricians.....	240
Fire and Police Personals.....	43, 91, 143, 187, 240

<i>Garbage and Refuse:</i>	
Municipal Waste, John H. Simon, M.D.....	10
*Milwaukee's Garbage Problem.....	24
Westmount, Canada, to Have Incinerator.....	37
The City of Cleveland.....	48
*Improvements for New York, George B. McClellan.....	51
Waterbury's Garbage Disposal Plant.....	134
Garbage Disposal by Connecticut Cities.....	134
*Garbage Problem Solved.....	150
*Need of Sanitary Garbage Disposal.....	173
*An Improved Ash Cart.....	179
*The Troy Bottom Dump Wagon.....	193
*Atlanta's New Garbage Incinerator.....	282

<i>General Improvements:</i>	
London in Transformation.....	32
*Improvements for New York, George B. McClellan.....	51
*The Development of the City.....	56
*Chicago Municipal Museum.....	127
*\$250,000,000 for More New York Subways.....	129
Stamford, Conn., Will Enlarge Boundaries.....	134
*Savannah's Old and New City Hall.....	136
The Future of Rapid Transit in New York.....	137
London Tramways.....	150
*East Boston Tunnel.....	148
Chicopee, Mass., Was Incorporated.....	182
*The Building of a City.....	199
*Village Improvements, Frederick S. Lamb.....	224
Municipal Improvements in California.....	234
*Civic Art in the Quaker City.....	251

<i>Health:</i>	
Mayor Sweet of Grand Rapids Issues Proclamation.....	37
Milk Adulteration.....	46
Vital Statistics of Eight Leading Connecticut Cities.....	182
The Borough of St. Pancras.....	182
*A New Disinfectant.....	194
The City and County Death Rate.....	238
Fighting Mosquitoes in Germany.....	265
Vital Statistics of Germany.....	288

<i>Insurance:</i>	
Municipal Insurance as a Means of Revenue.....	30
Municipal Insurance in England.....	164

<i>Lighting:</i>	
Acetylene Lighting in France, Pierre Rosenberg.....	13
Success of Detroit's Municipal Electric Light Plant.....	23
*Municipal Lighting in New York.....	24
*The City of Indianapolis.....	26
Conduit and Electric Lighting Conditions in the United States.....	30
The Inspection of Meters.....	37
*Improvements for New York, George B. McClellan.....	51
Monopolies in New York.....	62
*Misstatements about Municipal Lighting.....	76
The Profits of the Richmond Gas Works.....	86
Bridgeport, Conn., Contracts for Street Lights.....	86
Municipal Lighting Grows in Favor.....	133
Municipal Lighting Is Successful.....	136
Municipal Light in Logan City.....	138
The Nashville, Tenn., Light Plant.....	138
The Wallingford, Conn., Lighting Plant.....	138
*Lamp Testing, L. B. Spinney.....	151
South Norwalk's Lighting Plant.....	177
Municipal Gas and Electric Lighting.....	178
Municipal Lighting for Knoxville.....	180
The Use of Acetylene Gas.....	182
*Municipal Lighting by Acetylene Gas.....	192

MUNICIPAL JOURNAL AND ENGINEER

Janders Arc Street-Lighting System.	195	Testing Cements and Asphalts, Prof. A. W. Dow Higgins.	162	The Future of Rapid Transit in New York.	137
• The Lighting Investigation in New York.	225	Problem of Street Intersections, Prof. LaFayette Higgins.	166	The East Boston Tunnel.	148
Municipal Light Wanted in Greenfield.	233	The Cost of Macadamizing Streets.	182	London Tramways.	150
Electric Street Lighting.	235	Pavements in Newark.	182	Public Utility Corporations Poor Tax Payers.	150
The Report of Henry A. Knight.	236	†Why Use a Steam Road Roller?	193	Chicago's Municipal Campaign.	180
Municipal Gas for Thirty-three Cents.	238	†The Drake Concrete Mixer.	194	Trolley Lines in Hong Kong.	181
Combined Plants for Small Towns, Oscar Clausen.	261	†Why Use a Steam Road Roller?	194	†Mayor Dunne of Chicago.	217
Syracuse Wants Municipal Lights.	266	†The Diamond Stone Brick.	194	Profits of Municipal Operation in England.	235
* New York's Light Investigation a Fizzle.	278	†"As Good As" Bitulithic.	195, 246	†An Efficient Trolley-Car Fender.	248
Municipal Ownership:					
Profitability of Public Ownership.	9	†A New Kind of Paving Material.	196	Two-Cent Car Fares in England.	256
Waste, Municipal, <i>John H. Simon, M.D.</i>	10	The Building of a City.	199	English Tramways.	284
The Acetylene Lighting in France, Pierre Rosenberg.	13	Fillers for Brick and Block Streets, H. C. Innes.	214	Municipal Steamboats.	287
† Asphalt Repair Plant, Municipal, E. G. Pipp.	22	Cobbling of Gutters in Meriden, Conn.	232	Municipal Railway for San Francisco.	287
Success of Detroit's Municipal Electric Light Plant.	23	†Portable Good Roads Machinery.	247	Leeds Street-Car System.	289
* Lighting for New York, Municipal.	24	†Growth of Warren Brothers' Company.	248		
Clinker Bricks, Municipal.	29	†Wood Block Replaces Asphalt in Chicago.	248		
Ownership in Ontario, Municipal.	30	Wood Pavements in Hull.	273		
Insurance as a Means of Revenue, Municipal.	31	*The Asphalt Scandal.	276		
Trading Relieves Rates, Municipal.	36	†Some of New York's Poor Asphalt.	286		
Dentistry in Germany, Municipal.	36	The Average Cost per Square Yard.	238		
Memphis Water Works Make Money.	46	The Cost of Macadam Pavements.	238		
Electric Tramways, Municipal.	49				
Public Utilities in Hull.	51				
Improvements in New York, <i>George B. McClellan.</i>	52				
*Corporation Monopolies in New York.	53				
†Detroit's Water Supply.	54				
Civic Conditions in New York.	55				
*Municipal Socialism.	56				
*Misstatements about Municipal Lighting.	57				
Electric Tramways, Municipal.	58				
Omaha to Have Municipal Water Works.	59				
Proposed Water Supply for Salt Lake City.	60				
The Profits of the Richmond Gas Works.	61				
Providence Water Works Figures.	62				
Cedar Rapids Municipal Water Works.	63				
Cost of Laying Water Pipes.	64				
Glasgow's Municipal Railroads.	65				
Municipal Lighting Grows in Favor.	66				
London Now Owns Its Water Supply.	67				
Municipal Lighting Is Successful.	68				
Municipal Light in Logan City.	69				
Nashville, Tenn., Light Plant.	70				
Norwalk, Conn., Water Works.	71				
Water Supply of Richmond.	72				
Wallingford, Conn., Lighting Plant.	73				
London Tramways.	74				
Insurance in England, Municipal.	75				
*Extension of Municipal Ownership.	76				
Successful Water Works.	77				
†Springfield's Water Works.	78				
Spokane's Water Supply.	79				
Municipal Contest in Oakland.	80				
South Norwalk's Lighting Plant.	81				
Municipal Gas and Electric Lighting.	82				
Municipal Lighting for Knoxville.	83				
The Use of Acetylene Gas.	84				
†Municipal Lighting by Acetylene Gas.	85				
†Mayor Dunne of Chicago.	86				
Water Works of Aurora.	87				
†Ardmore City Water Works.	88				
To a Chicago Critic (Poem).	89				
Municipal Light Wanted in Greenfield.	90				
Profits of Municipal Operation in England.	91				
Parcels-Post Rates in Germany.	92				
Water Department of Mankato.	93				
Syracuse Wants Municipal Lights.	94				
English Tramways.	95				
†Municipal Steamboats.	96				
Municipal Railway for San Francisco.	97				
Leeds Street-Car System.	98				
*Municipal Street Sprinkling.	99				
Parks and Playgrounds:					
"The Park Department.	100				
"A Pet Scheme.	101				
Saving Trees from Brown-Tail Moth Pest.	102				
Municipal Playgrounds a Necessity.	103				
"Items of Park News" Discontinued.	104				
Larger Parks for Baltimore.	105				
Municipal Art for Chicago.	106				
Brown-Tail and Tussock Moths.	107				
†Civic Art in the Quaker City.	108				
Ideal Park Conditions.	109				
Paving:					
Foundations for Brick Paving, <i>T. E. Petrie, C.E.</i>	110				
†Development of Bitulithic Pavement, <i>Frederick J. Warren.</i>	111				
Repair of Street Pavements.	112				
Municipal Asphalt Repair Plant, <i>E. G. Pipp.</i>	113				
*Granite Block Pavement Too Noisy.	114				
*A Correspondent.	115				
Brick Paving in Covington.	116				
What an Engineer Thinks of Bitulithic.	117				
Brick Pavement at Niagara Falls.	118				
Benefits of Wide Tires.	119				
Concrete Street Curbs.	120				
Imitation Bitulithic Not Acceptable.	121				
Brick Pavements in Hayes.	122				
Needed Chicago Street Improvements.	123				
Brick Pavements in Hornellsville.	124				
Cost of Asphalt Repairs in the City of Scranton.	125				
Amount and Cost of Pavements in Troy.	126				
A Pavement of Whale Bones.	127				
Bitulithic in St. Louis and Shreveport.	128				
Brick Pavements for Villages, <i>Le Grand Brown, C. E.</i>	129				
*A Suggestion for Paving Brick Manufacturers.	130				
Relative Cost of Macadam.	131				
†From Road Plows to Steam Rollers.	132				
Acme Road Machinery Company.	133				
Tables of Statistics:					
Sewage Disposal Works.	134				
Meter Rates in Cities of 100,000 Population.	135				
Municipal Trading Relieves Rates.	136				
*Telephone Investigation Seems Assured.	137				
London Now Owns Its Water Supply.	138				
Water Rates in English Towns.	139				
Syracuse Wants Municipal Lights.	140				
English Tramways.	141				
Telephones:					
Telephones at Village Post Offices.	142				
Monopolies in New York.	143				
*Telephone Investigation Seems to Be Assured.	144				
Municipal Telephones in Canada.	145				
Transportation:					
Ownership in Ontario, Municipal.	146				
Trading Relieves Rates, Municipal.	147				
Street Railways Compelled to Issue Transfers.	148				
Electric Tramways, Municipal.	149				
Glasgow's Municipal Railroads.	150				
Water Supply:					
Profitability of Public Ownership.	151				
Water Waste at Marion, O., <i>Edward H. Cowan.</i>	152				
Meter Rates in Cities of 100,000 Population.	153				
Municipal Trading Relieves Rates.	154				
Water Meters in Fort Worth.	155				
Memphis Water Works Make Money.	156				
†Detroit's Water Supply.	157				
Omaha to Have Municipal Water Works.	158				
Larger Water Supply for New York.	159				
Proposed Water Supply for Salt Lake City.	160				
Providence Water Works Figures.	161				
Cedar Rapids Municipal Water Works.	162				
Cost of Laying Water Pipes.	163				
Meters Prevent Water Waste.	164				
London Now Owns Its Water Supply.	165				
The Wanton Waste of Water.	166				
Norwalk, Conn., Water Works.	167				
Water Supply of Richmond.	168				
†Pittsburg Meter Company's Salesmen's Convention.	169				
Successful Water Works.	170				
Springfield's Water Works.	171				
Spokane's Water Supply.	172				
Municipal Contest in Oakland.	173				
†Electrical Thawing of Water Pipes, <i>George S. Haley.</i>	174				
The Air Lift System of Pumping.	175				
Water Waste in Buffalo.	176				
Water Works of Aurora.	177				
Ardmore City Water Works.	178				
Water Rates in English Towns.	179				
Storage Reservoirs of London.	180				
Why Water Meters Should Be Used.	181				
Water Department of Mankato.	182				
The Water Commissioners of St. Paul.	183				
†The Jet Meter.	184				
Water Supply by Compressed Air.	185				
Water Works Equipment Company.	186				
Combined Plants for Small Towns, <i>Oscar Clausen.</i>	187				
Water-Works Losses.	188				
A Few Practical Hints, <i>S. A. Charles.</i>	189				
†Emerson Quick Cleaning Strainer and Foot Valve.	190				
Artesian Wells in Australia.	191				
Electrolysis in Bayonne.	192				
Public Schools Must Pay for Water.	193				
Water Supply of Taunton.	194				
New Britain is Relaying Water Mains.	195				
The Use of Water Meters.	196				
Municipal Water Works for Passaic.	197				
Brunswick, Me., Is to Have Pure Water.	198				
The Water Supply of Westmount.	199				
†Water Works Exhibit.	200				
Vehicles:					
†An Improved Ash Cart.	201				
Troy Bottom Dump Wagon.	202				
†Studebaker Automobiles.	203				
†Troy Bottom Dump Wagon.	204				
†Ideal Dump Wagon.	205				
Voting Machines:					
†Indianapolis Thinks Voting Machines.	206				
†The Winslow Voting Machine.	207				
†The Winslow Voting Machine in Grand Rapids.	208				
Miscellaneous:					
Population in Transvaal Municipalities.	209				
Benefits of Wide Tires.	210				
St. Louis to Increase Salaries.	211				
†Rubber Silicoflate Roofing.	212				
†The Wager Timber Scale.	213				
Map of New York.	214				
†Indexing Public Improvements.	215				
†New York Central's New Station.	216				
Air Power.	217				
†Safeguard against Slipping.	218				
*New Home of THE MUNICIPAL JOURNAL.	219				
*Chicago's Municipal Museum.	220				
Catalogues Wanted by Panama Contractor.	221				
Facts about Scranton.	222				
Mayor's Salary \$10 a Year.	223				
†A 300-foot Cold Storage Air Lift.	224				
*A Progressive Municipal Platform.	225				
Method of Recording Local Improvements.	226				
Value of Municipal Advertising.	227				
City of Central Falls.	228				
†New Sherzer Rolling Lift Bridges.	229				
†A New Disinfectant.	230				
Municipal Corruption Abroad.	231				
Parcels-Post Rates in Germany.	232				
Some Interesting Facts about Providence.	233				
†An Efficient Trolley-Car Fender.	234				
*Wanted: A Bureau of Municipal Information.	235				
*A Municipal Exhibit.	236				
Convention Dates: 28, 78, 175, 228, 281.					
Periodicals, Articles in American: 45, 92, 144, 190, 243, 291.					
Periodicals, Articles in Foreign: 45, 145, 191, 243.					
Public Documents Received: 46, 93, 191, 243.					

NOTE:—*Editorial. †Illustrated. ††Letter to the Editor. ††Item of Interest to the Trade.

